

## **ABSTRACT OF THE DISCLOSURE**

What is disclosed is a method for creating reusable composite components from interpreted pages of rendered document during dynamic document construction. The method involves first obtaining a list of document components from the page and identifying any non-cached components. The

5 individual reusable document components (RDCs) are cached having been rendered to their respective bounding box dimensions. These RDCs are then *permuted into combinations of RDCs and each composite RDC is cached* rendered relative to each other in a bounding box of sufficient size to adequately contain the combination. Then, combining RDCs to form composite RULs and

10 caching the composite RULs rendered to full-page size. Any portion of each RDC of each composite RUL falling outside the boundary of RULs full-page size is clipped. Also disclosed is a method for rendering pages having a combination of reusable components and non-cached components has the first step of assessing the page for the possibility of having an underlay-overlay pair. Then a

15 cache of RULs is searched for underlays having the needed RDCs. If the correct RUL is not found in cache then generating a RUL from the page's RDCs and caching the new RUL rendered to full-page size. A full-page size overlay is rendered having the non-cached components. Lastly, given the overlay and given the correct underlay is found in cache then retrieving the underlay and

20 rendering the page therefrom.